

Title (en)

Variable-capacity buffer store and its method for control

Title (de)

Kettenspeicher sowie Verfahren zu dessen Steuerung

Title (fr)

Magasin intermédiaire à capacité variable et son procédé de commande

Publication

EP 1371583 B1 20060816 (DE)

Application

EP 02405476 A 20020611

Priority

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Abstract (en)

[origin: US6640960B1] Chain stores are provided for buffering and/or short-term storage of articles. They have a plurality of gondolas which are suspended from two chains which in turn run vertically over a plurality of deflection pulleys. Because of the requirement for realizing constantly higher capacities and for increasing the loading and unloading frequency of the store, the gondolas rock to an increasing extent at the deflection pulleys. At a sufficiently high cycle frequency during loading and/or unloading, this can lead to a rocking of the gondolas over the total length of the chain, which can result in the articles being thrown out of the gondolas. The chain store according to the invention is now characterized in that it has a chain drive apparatus which controls vertical movement of the carriages in such a way that, whenever possible, the latter are present in the upper half of the rails guiding them, preferably assume the highest possible vertical position, so that disadvantageous rocking of the gondolas is avoided thereby.

IPC 8 full level

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CPC (source: EP US)

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Cited by

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